

03-04-04

"Express Mail" mailing label no.: EV 373381042 US Date of Deposit: March 2, 2004  
I hereby certify that this paper or fee is being deposited with the United States Postal Service's "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

By Maria E. Vega [MARIA E. VEGA]

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: ) Group Art Unit: 2882  
JOHN K. GRADY ) Examiner: Unknown  
Serial No.: 10/718,385 )  
Filed: November 19, 2003 )  
For: LOW NOISE X-RAY DETECTOR )  
FOR FLOUROSCOPY )

INFORMATION DISCLOSURE STATEMENT  
PURSUANT TO 37 C.F.R. § 1.56

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, the following patents (copies of which are enclosed)  
are submitted to the Examiner for consideration:

<u>Pat. No.</u>	<u>Patentee</u>	<u>Issue Date</u>
4,142,101	Yin	February 27, 1979
4,503,460	Sklebitz	March 5, 1985
4,901,337	Fujimoto	February 13, 1990
5,138,642	McCroskey <i>et al.</i>	August 11, 1992
5,235,191	Miller	August 10, 1993
5,377,253	Ifuku	December 27, 1994
5,412,705	Snoeren <i>et al.</i>	May 2, 1995
5,438,604	Horbaschek	August 1, 1995
5,559,849	Bruijns	September 24, 1996
5,723,865	Trissel <i>et al.</i>	March 3, 1998
5,864,146	Karellas	January 26, 1999

<u>Pat. No.</u>	<u>Patentee</u>	<u>Issue Date</u>
5,878,107	Ishikawa <i>et al.</i>	March 2, 1999
5,970,115	Colbeth <i>et al.</i>	October 19, 1999
6,031,892	Karellas	February 29, 2000
6,192,105	Hunter <i>et al.</i>	February 20, 2001
6,215,848	Linders <i>et al.</i>	April 10, 2001
6,226,351	Snoeren <i>et al.</i>	May 1, 2001
6,314,160	Dhawale <i>et al.</i>	November 6, 2001

#### Other Documents

Marconi Applied Technologies Limited, "CCD65 Series Ceramic Pack, Low-light CCD Sensor", March 2002.

Marconi Applied Technologies Limited, "Technical Paper, Low Light Level Solid State TV Imaging", February 2000.

Marconi Applied Technologies Limited, "CCD60 Series Ceramic Pack, Front-faced, Low-light CCD Sensor", January 2002.

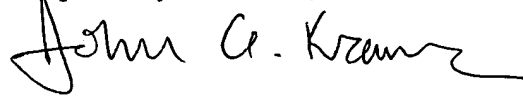
Varian Medical Systems, Inc., Web site print out, "X-ray Products", 1999-2002.

Tubbs *et al.*, "Diffraction-limited CCD imaging with faint reference stars", March 2002.

Applicant is unaware of art any more pertinent to the above-identified application than the patents cited above.

A "List of Prior Art Cited by Applicant" (PTO Form SB/08A) is enclosed for the Examiner's convenience.

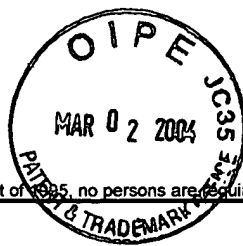
Respectfully submitted,



John A. Kramer  
Attorney for Applicant  
Registration No. 46302  
Customer No. 27804  
HOLLAND & BONZAGNI, P.C.  
171 Dwight Road, Suite 302  
Longmeadow, MA 01106-1700  
(413) 567-2076

Date: March 2, 2004

[02096P05]



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/718,385
Filing Date	November 19, 2003
First Named Inventor	John K. Grady
Art Unit	2882
Examiner Name	Unknown
Attorney Docket Number	02096P

Sheet 1 of 2

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 4,142,101	02-27-1979	Yin	
		US- 4,503,460	03-05-1985	Sklebitz	
		US- 4,901,337	02-13-1990	Fujimoto	
		US- 5,138,642	08-11-1992	McCroskey et al.	
		US- 5,235,191	08-10-1993	Miller	
		US- 5,377,253	12-27-1994	Ifuku	
		US- 5,412,705	05-02-1995	Snoeren et al.	
		US- 5,438,604	08-01-1995	Horbaschek	
		US- 5,559,849	09-24-1996	Bruijns	
		US- 5,723,865	03-03-1998	Trissel et al.	
		US- 5,864,146	01-26-1999	Karellas	
		US- 5,878,107	03-02-1999	Ishikawa et al.	
		US- 5,970,115	10-19-1999	Colbeth et al.	
		US- 6,031,892	02-29-2000	Karellas	
		US- 6,192,105	02-20-2001	Hunter et al.	
		US- 6,215,848	04-10-2001	Linders et al.	
		US- 6,226,351	05-01-2001	Snoeren et al.	
		US- 6,314,160	11-06-2001	Dhawale et al.	
		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND

TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

[02096P06]

"Express Mail" mailing label no.: EV 373381042 US Date of Deposit: March 2, 2004

I hereby certify that this paper or fee is being deposited with the United States Postal Service's "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and is addressed to: Mail Stop

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

By MARIA E. VEGA MARIA E. VEGA

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

<b>Application Number</b>	10/718,385	
	<b>Filing Date</b>	November 19, 2003
	<b>First Named Inventor</b>	John K. Grady
	<b>Art Unit</b>	2882
	<b>Examiner Name</b>	Unknown
<b>Attorney Docket Number</b>	02096P	

Sheet 2 of 2

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Marconi Applied Technologies Limited, "CCD65 Series Ceramic Pack, Low-light CCD Sensor", March 2002.	
		Marconi Applied Technologies Limited, "Technical Paper, Low Light Level Solid State TV Imaging", February 2000.	
		Marconi Applied Technologies Limited, "CCD60 Series Ceramic Pack, Front-faced, Low-light CCD Sensor", January 2002.	
		Varian Medical Systems, Inc., Web site print out, "X-ray Products", 1999-2002.	
		Tubbs et al., "Diffraction-limited CCD imaging with faint reference stars", March 2002.	

<b>Examiner Signature</b>		<b>Date Considered</b>	
---------------------------	--	------------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.